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092694 RevD

HLWLANAU 802.11b/g/n Transceiver Kit



Wireless Communications for OmniLogic

Owner's Manual

Contents

Introduction.....	1
Installation.....	2
Configuration.....	6
Operation.....	8
Troubleshooting.....	9
Warranty.....	10

HLWLANAU

Hayward Pool Products (Australia) Pty, Ltd.
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USE ONLY HAYWARD GENUINE REPLACEMENT PARTS



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Statement

This unit has been tested to and complies with all relevant EMC, RF, and EME Australian Standards and regulations as per the The ACMA.



Introduction

The HLWLANAU is a 802.11b/g/n Transceiver kit that can make a wireless connection from the OmniLogic up to 76m to the home's router/access point preventing the need to run ethernet cable for web access. Connection to the web is necessary for remote access to the OmniLogic using web enabled devices.

Compatibility

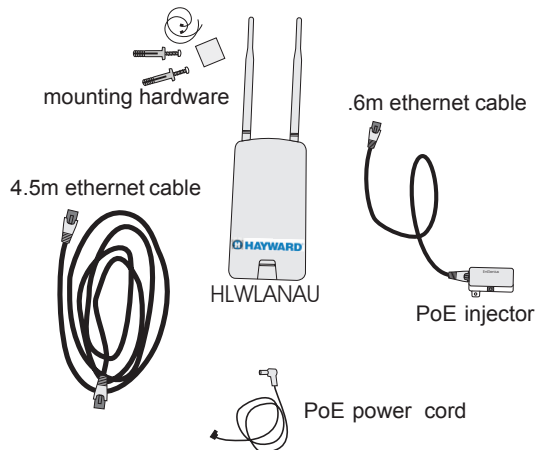
Refer to this manual when using OmniLogic controls operating with MSP version R1.4.3 and greater. For earlier OmniLogic MSP revisions, refer to previous HLWLANAU manual versions. To determine OmniLogic's MSP version, select the "config" icon on the home screen and then select "system info" (see diagram on page 8).

Before You Begin

The HLWLANAU kit contains the following:

- HLWLANAU 802.11b/g/n Transceiver
- Power Injector
- OmniLogic power supply cable for Power over Ethernet (PoE) Injector
- 2 Ethernet Cables
- Miscellaneous mounting hardware

Installation of the HLWLANAU requires that you have an existing wireless home network in range of the intended HLWLANAU mounting location. The HLWLANAU has a radio range of about 76m. To connect the HLWLANAU to the home's network, you can either use



WPS or will need to know the home network's SSID, security type and password.

Survey the location near the OmniLogic to locate the best mounting location. The HLWLANAU has a 4.5m ethernet cable that connects to the OmniLogic. When determining the best mounting location for the HLWLANAU, note that it can be mounted on the two provided screws or strapped to an object using the two included zip ties. To help determine if the mounting location is in range of the router/access point, test the connection of other devices (phone, tablet, laptop, etc.) at that same location.

If a reliable wireless connection can't be made in the intended location, consider moving the router/access point closer to the OmniLogic or using a longer outdoor rated ethernet cable to move the HLWLANAU closer to the router/access point.



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Router/Access Point Information

If using WPS

The HLWLANAU supports WPS connectivity. WPS stands for Wi-Fi Protected Setup and is a wireless networking standard that tries to make connections between a router and wireless devices faster and easier. It works only for wireless networks that have WPA Personal or WPA2 Personal security. Check the router's manual to determine whether it supports this feature and instructions on how to use it.

If not using WPS

If not using WPS, the HLWLANAU cannot be configured without the following information. Fill in the information below.

Router or Access Point's SSID *(wireless network name - case sensitive)* _____

To find the SSID:

- 1) Ask the homeowner. Each wireless router or access point has a default SSID which may be in use, or has been changed by the network administrator (homeowner).
- 2) If the homeowner doesn't know, have them login to the router/access point and read the information from the device. The SSID should be shown along with other router settings. The router's documentation or manual should show how to access administrative settings and find the SSID.
- 3) If a wireless device is already connected to the home network (phone, tablet, laptop, etc.), the device's connection properties may show the SSID.

Router or Access Point's Security Type _____

To find the Security Type:

- 1) Ask the homeowner. The network administrator (homeowner) would have set up the security type based on the desired security level and the type of devices that will be connecting to the wireless network.
- 2) If the homeowner doesn't know, have them login to the router/access point and read the security type from the device. This information should be shown along with other router settings. The router's documentation or manual will show how to access administrative settings and find the security type.
- 3) If a wireless device is already connected to the home network (phone, tablet, laptop, etc.), the device's connection properties may show the security type that is in use.

Wireless Network Password *(case sensitive)* _____

The wireless network password is not broadcast or typically saved in the router/access point's administrative settings. The network administrator (homeowner) would have set up a password when initially setting up the wireless security type. If no security was selected, the network is Open and there is no password.

Installation

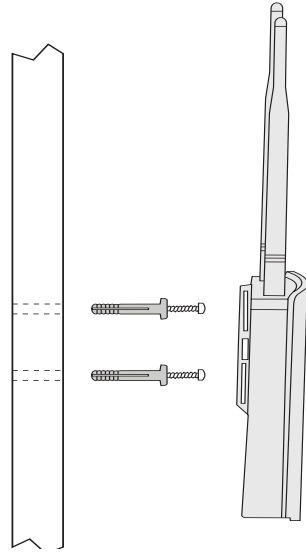
DANGER of Death, Injury or Property Damage if procedure not followed. This accessory connects to the OmniLogic beneath the dead front panel. Dead front removal is required for this installation. Power to the OmniLogic panel **MUST** be shut off before the dead front is removed. This means a complete shutdown of power to the entire OmniLogic unit.



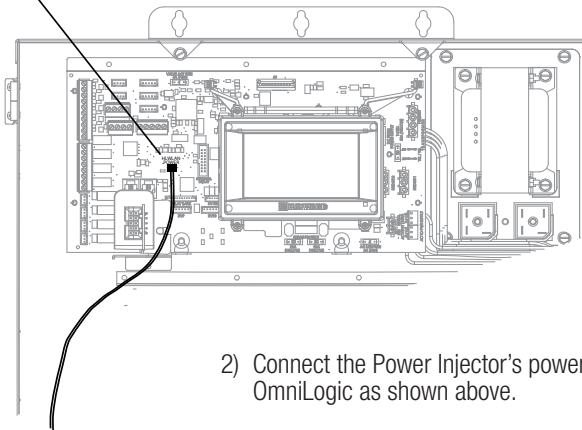
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- 1) Depending on the mounting surface, use either the included screws/anchors or tie straps. A drilling template is included when using screws. Be sure that there are no major obstacles between the HLWLANAU and the home's router/access point.

Loosely mount the HLWLANAU so that you have visible access to the LED indicators on the bottom back of the unit. You will need to refer to these indicators before permanently fastening the HLWLANAU.



Attach PoE injector power cable to connector labeled "HLWLAN Power"

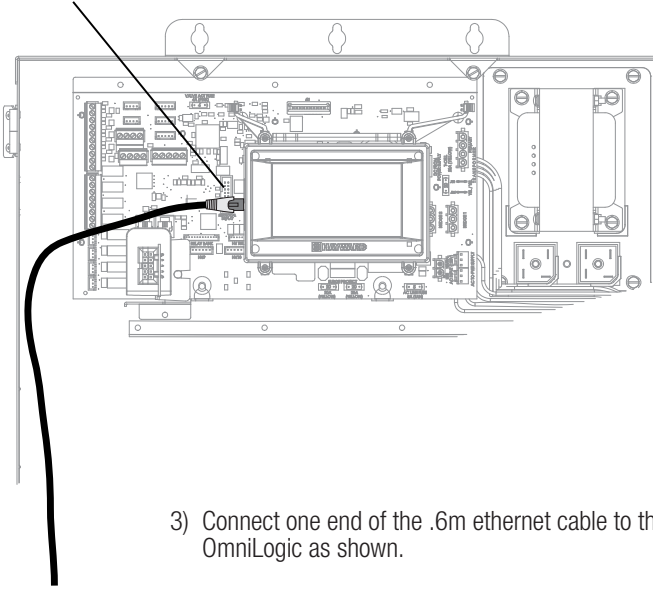


- 2) Connect the Power Injector's power cable to the OmniLogic as shown above.

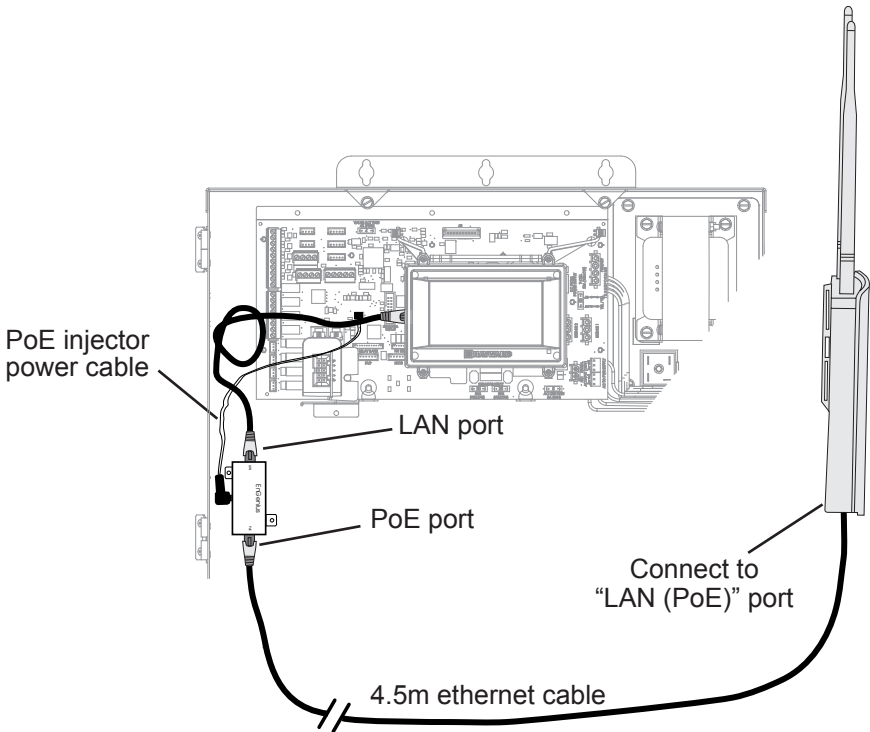


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Connect .6m ethernet cable here



- 3) Connect one end of the .6m ethernet cable to the OmniLogic as shown.



- 4) Position the Power Injector in a convenient location within the low voltage wiring compartment of the OmniLogic. You can fasten the Power Injector with double sided tape or Velcro, if desired. Connect the opposite end of the power supply cable. Connect the .6m ethernet cable to the Power Injector's LAN port.

Connect one end of the 4.5m outdoor ethernet cable to the Power Injector's PoE port and the other end to the port on the HLWLANAU marked "LAN PoE". To access this port, remove the HLWLANAU's bottom cover. Be sure to replace the cover when done.

After all connections are made, replace the OmniLogic dead front taking care that no wires are pinched.



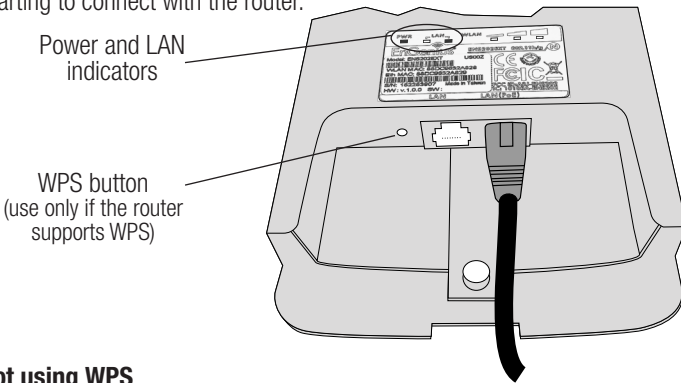
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Configuration

With the HLWLANAU now connected, power up the OmniLogic. Wait about 3-4 minutes for the OmniLogic to fully start. Verify that the HLWLANAU is being powered and is connected to the OmniLogic by looking at the PWR and LAN LED indicators on the backside near the ethernet connection. Both LEDs should be lit. After verifying that the HLWLANAU is powered, it must now be configured to connect to the wireless home network.

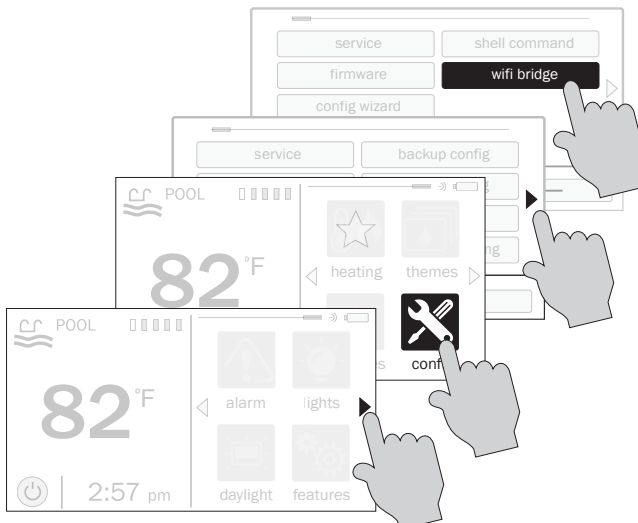
If using WPS

If using WPS (see page 2), note the location of the HLWLANAU's WPS button in the diagram below. Follow the router's instructions to start the WPS connection procedure. When the instructions call for the HLWLANAU's WPS button to be pushed, hold the button in for 3-5 seconds using a paper clip or some other small tool. The WLAN indicator will blink rapidly confirming that the HLWLANAU is starting to connect with the router.



If not using WPS

The following procedure assumes that DHCP is enabled on the home's router. From the OmniLogic's Local Terminal touchscreen, select the "Wifi Bridge".





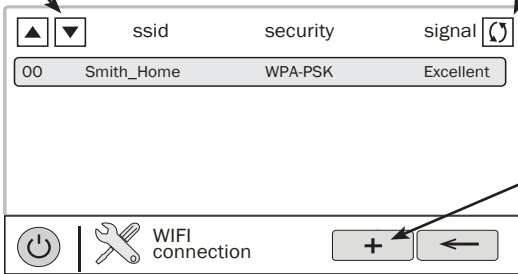
Wireless Bridge Configuration

Dynamic IP

The HLWLANAU will now scan for available access points. Once it has finished, the SSID of all available access points will be displayed on the screen as shown below. Touching the desired SSID will begin the connection process. Depending on the security used by the router or access point, you may be prompted for a password.

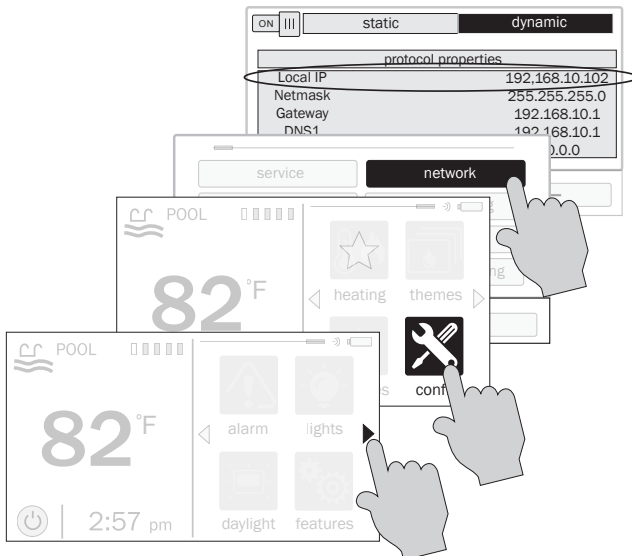
Use to scroll through available access points

Use to refresh the list of available access points



Use to manually configure an access point that does not appear in the list

If prompted for a password, the keypad will automatically appear. Enter the password and touch the check mark to move on. The HLWLANAU will begin to automatically connect to the selected access point. Be patient -- this may take a few minutes to complete. Once complete, verify that you have connected to the home network by making sure that you have an entry next to "Local IP" in Protocol Properties, as shown below. Note that your Local IP address will likely be different than the one shown below. If *any* IP address is shown, the OmniLogic is connected to the home network. If "Not assigned" is shown, the OmniLogic is not connected to the home network and you should refer to Troubleshooting.





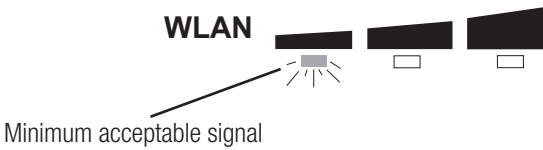
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Static IP

In certain cases, a static IP may be desired. Consult with a trained authorized individual who has access to the router's configuration settings to determine if the router supports that feature. Touching the "Static" tab will allow you to manually input network settings.

Signal Strength

When connected to the home network, the WLAN LED indicator will be lit and one of the Signal Strength LED indicators will be illuminated on the back of the HLWLANAU. There are 3 LEDs indicating increasing signal strength from left to right. Be sure that at least the left most LED is on steady. If it is intermittently blinking, or not on at all, consider re-locating the HLWLANAU or router/access point to acquire a better connection.



After verifying an acceptable signal, secure the HLWLANAU to the mounting surface.

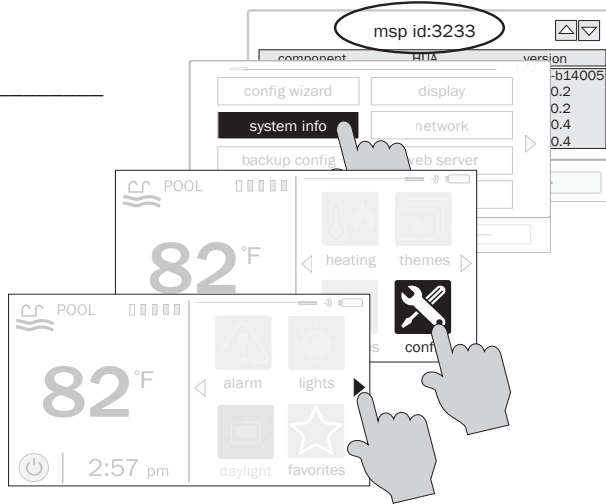
Operation

After successfully installing the HLWLANAU, you will need to setup a Hayward OmniLogic user account in order to remotely access the OmniLogic through the web using a standard internet browser or mobile app. Follow instructions below.

- 1) Using an ordinary web browser, go to www.haywardomniologic.com. If you don't already have an account, select "Register New User" and set up a new account.
- 2) Log in to your account.
- 3) Register your OmniLogic. While filling out the form to register your OmniLogic, you'll be asked for an MSP System ID. This number can be found directly from the OmniLogic. To find your unit's MSP ID, follow the procedure on page 9.



MSP ID _____



After the MSP is accepted, the OmniLogic will be linked to your account. You'll be able to access the OmniLogic at any time from your browser by logging into your account at haywardomnilogic.com. For mobile devices, an app must be downloaded from your device's app store. Go to www.hayward.com for more information on the availability and function of mobile apps.

Troubleshooting

1. The PWR and LAN LEDs are not lit.

This is an indication that the HLWLANAU is not connected to the OmniLogic. Perform the following:

- Make sure that both ends of the ethernet cable are firmly connected; one side in the HLWLANAU and the other in the PoE Injector (see Installation Steps 3 and 4).
- Make sure that the PoE Injector cable is firmly inserted in the HLBASE Main Board (Installation Step 2).
- Verify that the OmniLogic has power and that there is no break in the ethernet cable.

2. There is no "Local IP" address (page 7)

This is an indication that the HLWLANAU is not connected to the home network.

- The HLWLANAU may be mounted too far away from the home's router/access point or there may be too many obstructions between them. Using a Wifi capable phone, tablet or laptop, verify that other mobile devices can connect from that same location as the HLWLANAU.
- If other devices can connect, the most likely cause is an error in the configuration settings. Reconnect the HLWLANAU to the home's access point by following the procedure on page 7.
- If other devices cannot connect to the wireless network, consider relocating the router/access point or moving the HLWLANAU closer using a longer outdoor rated ethernet cable.



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3. **Web enabled devices cannot connect to the OmniLogic**

- Verify that you have an internet connection at the router/access point. Temporary outages with Internet Service Providers (ISPs) are not uncommon and the OmniLogic will be offline until service is restored.
- Have any changes been made to the home network? Any changes to the home network (router replacement, SSID name change, changes in security settings, IP reservation, etc.) may require you to repeat the configuration steps on page 7.
- Have you removed power from the OmniLogic or made changes that require it to reboot? If so, give the HLWLANAU some additional time to reconnect to the home network.

For further information or technical support, visit our website at www.hayward-pool.com.au.

Warranty

WARRANTY - STANDARD CONDITIONS - Australia and New Zealand Hayward Pool Products (Australia) Pty Ltd (ACN 083 413 414) ("Hayward Pool Products (Australia)") distributes Hayward Pool Products in Australia and New Zealand and provides the following warranties:

STATUTORY RIGHTS

1. The benefits to the consumer under this warranty are in addition to other rights and remedies of the consumer under the laws in relation to the goods and services to which the warranty relates; and
2. Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You may be entitled to a replacement or refund for a major failure and for compensation for any other loss or damage. You are also entitled to have the goods repaired if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

LIMITED WARRANTY

Hayward Pool Products (Australia) warrants that its products are free from defects in materials and manufacture for 12 months from date of supply by Hayward Pool Products (Australia) plus 90 days to allow for installation and supply (unless otherwise specified). Hayward Pool Products (Australia) will at its discretion, except in the circumstances described below, either replace or repair any product proven to be defective during the warranty period for either materials or manufacture or alternatively pay the cost of repair or replacement within 90 days of the receipt of the defective product, barring unforeseen delays. This warranty is for domestic installation only, is personal to the original purchaser and does not pass to any subsequent purchaser(s).

- To the extent permitted by law, Hayward Pool Products (Australia) will not be liable for products which fail or become defective during the warranty period as a result



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of freezing, accident, negligence, improper installation, water chemistry, misuse, tampering or lack of care.

- To the extent permitted by law, except as set out in this Warranty, Hayward Pool Products (Australia) excludes all statutory or implied conditions and warranties and any other liability it may have to the Customer (including liability for indirect or consequential loss) that may arise under statute or at law including without limitation for breach of contract, in tort (including negligence) or under any other cause of action.
- To the extent permitted by law, except as set out in this Warranty, Hayward Pool Products (Australia) limits its liability under any condition or warranty which cannot be legally excluded in relation to the supply of Goods and Services to:
 1. Replacing the Goods or supplying equivalent Goods or Services again;
 2. Repairing the Goods;
 3. Paying the cost of replacing the Goods or of supplying equivalent Goods or Services again; or
 4. Paying the costs of repairing the Goods.

Claims made for warranty, labour or infield support will not be accepted by Hayward Pool Products unless evidence is provided that installation has been completed in accordance with standard warranty conditions. Please refer to specific program document for details.

WHAT TO DO IF YOU HAVE A WARRANTY CLAIM

The faulty product is to be returned to the place of purchase, or where installed by an approved agent to an authorised warranty agent. No returns will be received directly from end consumers by Hayward Pool Products (Australia). You are responsible for arranging removal of the defective product and arranging installation of the repaired or replacement product, all transportation (and any applicable insurance costs) of transporting the product to the supplier and transporting the replaced or repaired product from the supplier. All returns are subject to Hayward Pool Products (Australia)'s written approval and must be accompanied by either:-

1. A Field Inspection Report authorised by the Local Customer Service Manager or Authorised Agent; or
2. A "Return Goods Authorisation" form obtained from Hayward Pool Products (Australia) prior to shipment.

Unauthorised returns will not be accepted.

- All Hayward Pool Products (Australia) warranty parts taken as an across the counter warranty exchange must be held for inspection until authorisation has been given by the Local Branch Customer Service Manager to dispose of them. Hayward Pool Products (Australia) reserves the right to provide replacement or credit for any items authorised under this warranty program.
- All claims must be accompanied by a copy of original purchase receipt, clearly stating date of purchase. All serial numbers must place the product within the warranty period or a proof of purchase is required. No claims in respect of the product can be made after the expiration of the warranty period.



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Warranty service requests can be faxed to:

Hayward Pool Products (Australia) Pty Ltd.

Fax: 1300 POOLS2 (1300 766571)

Or submitted to your local Hayward Pool Products (Australia) Branch Office.

A standard form is available to request warranty service. We will require:

- Installation contact information including address, daytime telephone numbers, home phone number, email etc.
- Complete model and serial number
- Proof of purchase (if the serial number was manufactured > 1 year ago).
- Evidence that purchase and Installation was completed in one transaction, by the one business or organisation.
- Nature of problem including specific faults and error codes

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